

CHOLESTERIC LIQUID CRYSTAL POLARIZING DEVICE

ABSTRACT

A cholesteric liquid crystal polarizing device includes a substrate, an alignment layer, and a cholesteric liquid crystal layer including multiple domains, each of said domains skewed at an angle relative to a plane parallel to said substrate. The device may be used in combination with a liquid crystal cell to fabricate a reflective liquid crystal display (LCD). In various embodiments, the reflective LCD may be a normally white mode or normally black mode device. In another variation, the liquid crystal cell may include a 90° twisted nematic liquid crystal.